

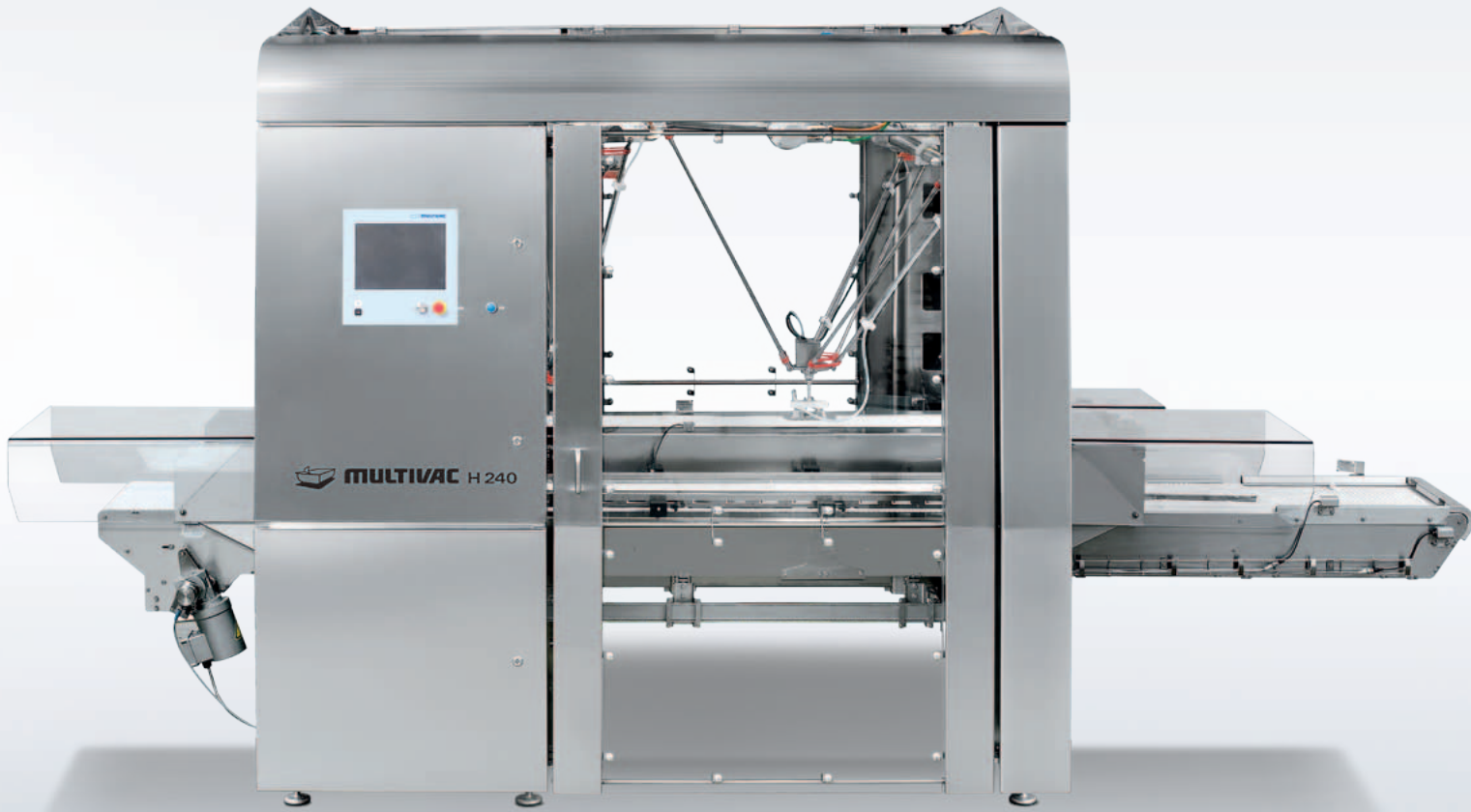


## H 240 Multi Robot Handling module

High throughput product & pack handling



**MULTIVAC**  
BETTER PACKAGING



## Dynamic handling of products and packs

The H 240 handling module automates a variety of tasks in packaging processes cost-efficiently and hygienically.

The robust stainless steel construction, which is FDA-compliant and hygienic down to the last detail, allows a full wet cleaning of the entire unit.

The wide down-to-floor doors on the front and back of the H 240 guarantee easy and comfortable access to all components inside the handling module.

## H 240



H 240

The consistently modular construction of the H 240, including an interchangeable gripper system, not only ensures flexibility, but also allows the machine to be adjusted to handle products and packages weighing up to 1000 g.

With a large operating range and a cycle rate of up to 240 pick & place cycles per minute, the module is very versatile.

In connection with the MULTIVAC Vision System MVS for product inspection and detection, the H 240 becomes a highly dynamic pick & place solution.

### **Variable loading and unloading of packaging machines**

As a stand-alone unit or in combination with other MULTIVAC products, the H 240 is optimized for automatable handling tasks in conjunction with packaging machines:

- Product placement in packs
- Case loading and other secondary packaging
- Separating & discharging
- Orientation and repositioning

With its high degree of variability and modular construction, the H 240 handling module can be used in many different applications with a variety of products, formats, cycle times and handling weights.

### **The H 240 is characterized by:**

- Large operating space with two integrated robots
- Comfortable and barrier-free access to robots and conveyer belt
- High speed and precision
- Quick changeover
- Consistent hygienic design
- Low maintenance costs
- Full integration into packaging lines
- Flexible product in-feed in machine and 90° direction
- Integrated Pneumatic & Control technology in portals
- Frame-mounted vacuum pump (optional)



### Easy and safe to use

The H 240 handling module has its own control system with a user-friendly HMI (Human Machine Interface) which is operated from the touch-screen terminal. This convenient feature makes the machine easy and safe to handle.

- User-friendly HMI with more than 40 operating languages
- Proven software and hardware
- Common operating terminal for the handling module and packaging machine possible
- Optional stand-alone solution

## Components



The H 240 handling module consists of a portal, control unit and two robots, including a gripper.

### **HR 460 4-axis robot: fast and accurate**

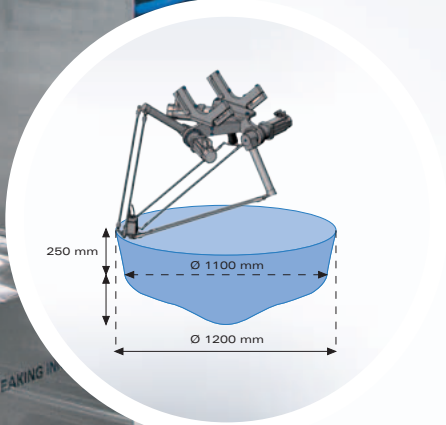
The 4-axis HR 460 allows accurate spatial positioning and orientation about the vertical axis. Products weighing up to 1000 g can therefore be picked up and oriented in any direction, increasing flexibility in product infeed.

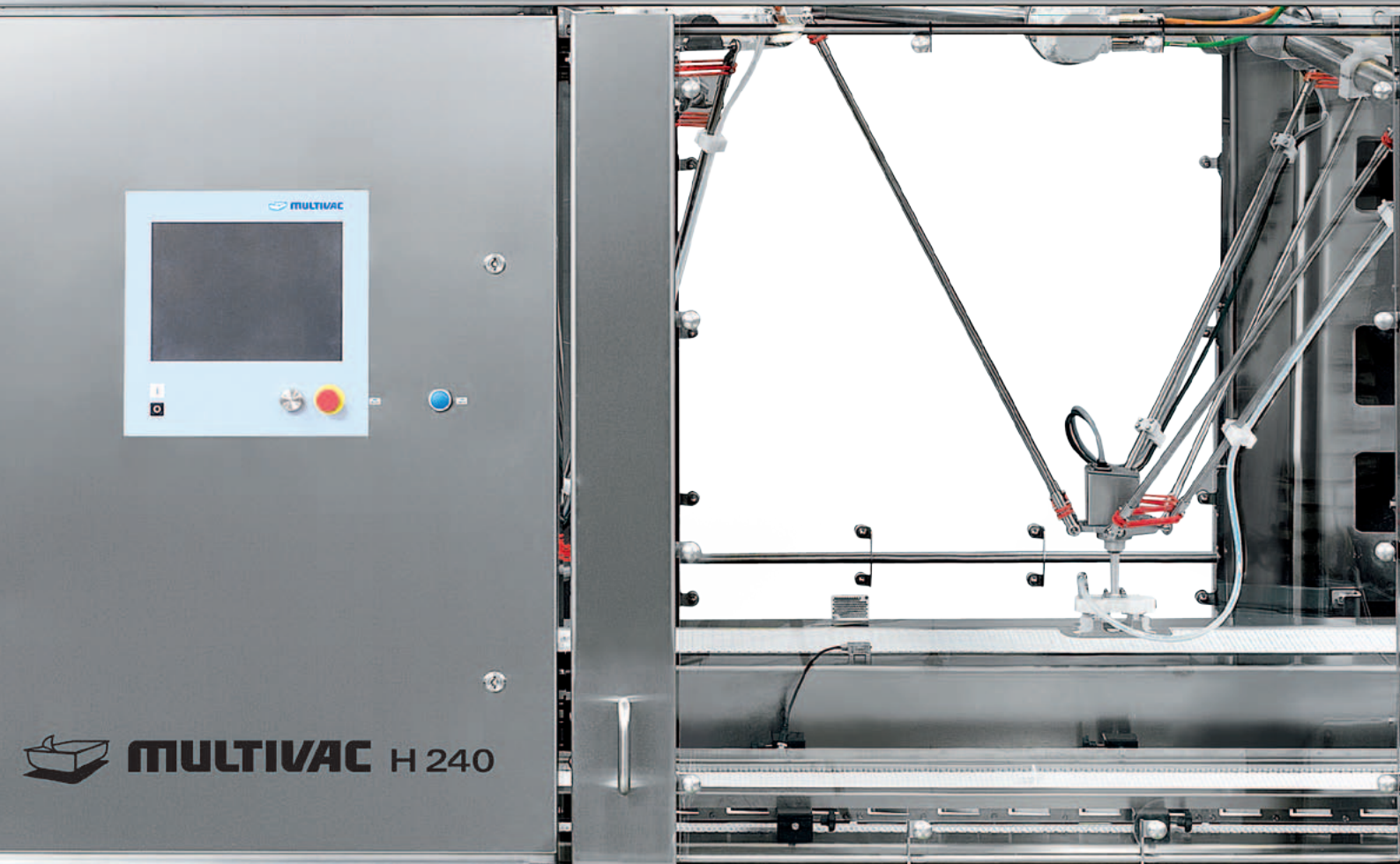
The HR 460 can be equipped with mechanical grippers or suction grippers. Its operating space of up to a diameter of 1200 x 250 mm and rate up to 120 pick & place cycles per minute make it a powerful, effective component for automation.

With rigorous hygienic design and high quality construction of the robot base, engines and arm system, all the robots of this series are suitable for easy and thorough wet cleaning. These hygiene features are especially well suited for packaging applications with open food and medical equipment.

- Dynamic and accurate
- Gripper system can be changed quickly and easily
- Space-saving design
- Minimized maintenance effort
- Can be used for loading, cartoning and separating

Depending on the application, the H 240 can also be equipped with other robots, such as the HR 250 two-axis robot and the HR 360 three-axis robot.





### Hygienic stainless steel portal

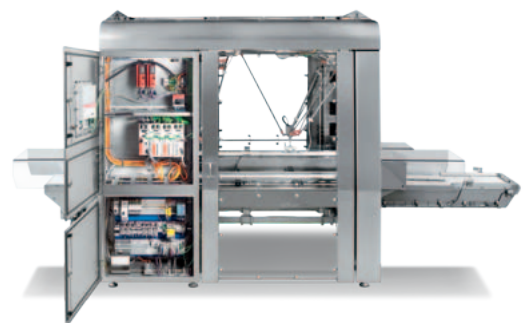
The FDA-compliant and hygienic stainless steel portal is extremely stable thanks to its innovative construction. All forces that are generated are completely deflected by the frame, providing complete stability for accurate positioning of your products down to the millimeter.

The stable and easily accessible profile design of the portal is carried out without undercuts and internal corners so can be cleaned very quickly and easily. The wiring for pneumatic and electronic components is protected within the frame profiles.

The interior of the H 240 is accessible via two large down-to-floor polycarbonate doors optional with stainless steel perforated sheet.

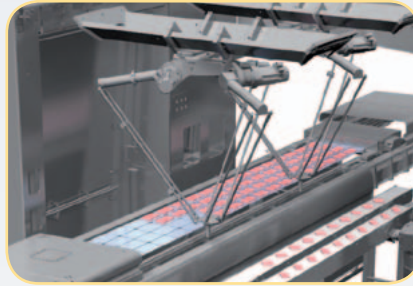
The stainless steel portal is:

- Stable and durable
- Hygienic down to the smallest detail
- Easily accessible
- Unique in design
- Especially easy to maintain due to a low number of parts

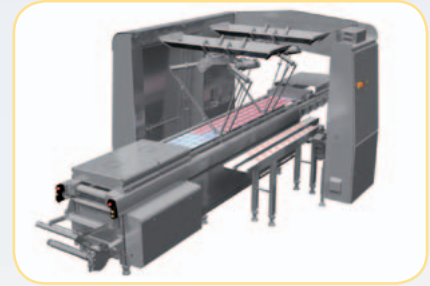


## Typical applications

The H 240 can be used as a flexible system for loading MULTIVAC machines. In this case the handling module is positioned above the insertion area. The H 240 can place even floppy products such as steaks, unbaked pizzas with toppings, medical sponges or swabs into packs.



### Dynamic loading

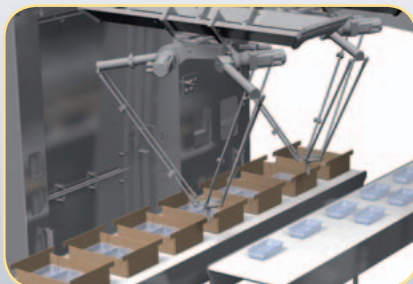


The H 240 can generate custom pack patterns with the aid of predefined programs. The H 240 is ideally suited to automated custom packing.



### Custom pack pattern design

Other uses include typical toploding applications which are usually required in cartoning, for example. Here the packs are placed in a box from above. The H 240 can create almost any pack pattern to make optimum use of the space in the box. Interlayer and separation inserts can also be placed automatically.



### Universal toploding

## Technical data

- Operating range: 2150 mm x 1200 mm
- Positioning accuracy: +/- 2 mm
- Product weight: max. 1000 g
- Cycle rate: up to 120 pick & place cycles/min for each robot unit \*)  
\*) depending on load and distance
- Range of movement: Ø up to 1200 mm, height up to 250 mm

### Dimensions

- Length: 2230 mm  
Width: 2560 mm  
Height: 2340 mm  
Weight: 2 - 2,3 t (depending on the various options)

### Connections

- Electrical: 400 V, 50 Hz, approx. 3.5 kW with mechanical gripper  
400 V, 50 Hz, approx. 7.5 kW with suction gripper
- Compressed air: 6 bar, approx. 20 standard liters/min. \*)  
with ejector suction gripper  
\*) depending on number and size of the packages

- Protection class: IP 65

